# **COW STABLE WITH A MONITOR ROOF**

Style of Dairy Building That Is Especially Suitable for Hot Sections.

### KEEPS ANIMALS IN COMFORT

Manure and Feed Carriers a Feature of the Design-Cheaper and Easler to Care for Cattle When They Face Each

## Other. By WILLIAM A. RADFORD.

Mr. William A. RADFORD,
Mr. William A. Radford will answer juestions and give advice FREE OF COST on all subjects pertaining to the subject of building work on the farm, for the readers of this paper. On account of his wide experience as Editor, Author and Manufacturer, he is, without doubt, the highest authority on all these subjects. Address all inquiries to William A. Radford, No. IET Prairie avenue, Chicago, Ill., and only inclose two-cent stamp for reply.

We read a great deal about the ne cessity of keeping the dairy herd warm and comfortable in winter, but no one seems to pay much attention to keeping the cows cool and comfortable in summer.

The monitor roof style of dairy building is well liked in some sections, especially where the summer is long and hot. A dairy barn of this type is shown in the accompanying illustrations, which give the perspective and

This stable is open to the roof, a design that just naturally ventilates

itself when the windows are left open. The building is 36 feet wide by 54 feet in length and it contains stalls to hold 20 cows, besides two box stalls to be used as hospital stalls, bull pen. calf pen, or for any other useful pur-

This plan is laid out for and is intended to use manure carriers suspended from overhead tracks in the side alleyways behind the cows, also a

reach of the attendant. One advantage of hanging the sash from the cen ter is that high winds are not likely

to slam the sash, either open or shut. The foundation of this monitor-root dairy barn is of concrete, the walls having footings wide enough to make them solid and deep enough to reach down to solid ground. These walls extend up two feet above grade. A profile of the dairy floor conforms to the most approved plan worked out by practical dairymen.

The concrete standing floor has a fall of one inch between the front and hind feet of the cows. This is to facilitate drainage and for easy cleaning. The mangers are two feet in width, they are six inches deep at the back and 12 inches deep at the front or feed-alley side. The standing floor measures four feet ten inches from the back of the manger to the gutter. The gutter is 18 inches wide and drops six nches below the standing floor. The feed alley in the center is about sever feet in width and the alleys behind the cows are five feet six inches wide The side alleys slope with a fall of one inch towards the gutter. makes a stable floor that is permanent and satisfactory.

The roof may be supported in two ways. It may be made self-supporting so there will be no posts in the way This is done by running the rafters from the eaves clear through to the monitor plates. They are crossed and bolted at the crossings, and the whole roof structure is made into a trussed roof by ties reaching across the building from one side plate to the other side plate. All monitor studding reaches down and is bolted to these cross ties and to the rafters, thus forming a very strong truss.

The other plan supports the menitor studding or posts long enough to reach from the rear wall of the concrete mangers to the monitor plates. It is customary to place these posts two cows apart, and the monitor windows are the same width as the cow stalls. This arrangement provides one mon itor window for each two cows.

The cow stalls may be two feet ten stable is intended for.

Generally there is no ceiling in a monitor-roof cow stable, for the rea-



GEORGE E. COBB

(Copyright, 1915, by W. G. Chapm James Rose was "a gray-haired old reprobate!" He did not believe it imself, but his wife had called him so that very morning. She was forcible. often convincing, and he rubbed his

head dubiously as he wondered if, after all, she might not be right. "I haven't amounted to much, that's a fact." ruminated Rose, "but 'repro bate!' She don't mean that. She's in one of her tantrums and says anything that comes to her mind when she's Cross.

Cranky, diabolical would have best suited the case, for Mrs. Rose was ossessed of a veritable demon that especial morning. She almost recognized the fact herself, but felt that she had due provocation for being irritated age of tobacco fall all over a rug just swept clean. He had stumbled on leaving the kitchen and had tipped a platter to fragments. "Done on purpose!" she had declared and then she had "let loose at him" in her charac teristic way.

Mr. Rose started for town to get the mail, trying to devise some plan whereby he could get Mahala down to a fairly rational average as to temper and outbreaks. When he got to the post office, besides the weekly newspa per, there was a letter. He studied

the superscription and postmark.
"From Henry-well!" he soliloquized, and wondered that it was ad dressed to himself. Mrs. Rose considered it a gross infringement on her inches between stall partitions, or privileges for any of ner family to di-they may be three feet two inches, according to the size of the cows the herself. Mr. Rose wondered no longer as he opened the letter.

It informed that Henry, who had been absent from home for nearly two years in the city, had taken a wife to himself. By rare good luck the firm



"H'm!" Commented Rose Thoughtful

him establish a branch of their bust on within a week. He and his wife would like to spend a month or two yourself expanding conversationally at the old home, while they looked around for permanent quarters for

themselves Why Henry wrote to his father was that, in addition to the letter, he inclosed a written slip for his own readconsiders us with a certain amount of

ing only. It ran: You know how queer mother is She never liked it when Nell got married. My wife is a lovable timid little and if mother should begin on her.' I believe it would break her dear see if mother is likely to get offish. If so, we will change our plans.

"H'm!" commented Rose thought

He did not go directly home. In tead, he meandered on till he came o a secluded pasture lot, where he sat down on a tree stump to meditate. Yes, Henry had it right. His moth er's habitual prejudices and whims were well worth considering at the outset of a wedded career. All Rose stantiate this fact was the marriage of their daughter, Nell, five years before. She and her husband had remained at the old homestead for a month. It was a bitter period for Nell's husband. Mrs Rose made it a point to instruct the go." When he took her injunction easantly, she fancied he was deriding her. When he got serious, she d he was pugnacious, and tried

to egg him on to an open quarrel The result was that, after Nell and he had got settled in their own h he rarely went to visit the old folks

had been quite strained ever since. Mrs. Rose had made "this outlan ish treatment" a bone of contention she had caught her husband sneaking some bouquets to Nell and her hus-pand. In her autocratic way she had

taken the flowers away from him.
"No overtures, James," she had de-cided, "until that rebellious husband of Nell's shows the right respect for of Nell's shows the right respect for not good the digestion will be feeble, us old folks," and Rose was mum and and then the addition of a little nutsocile, knowing that he dared not re- meg will be found of benefit.

Up from the tree stump with re markable activity Rose seaped. His eyes danced, his face flushed, he aded the air with both fists. danced about in a state of tremendou

Then he laughed. Then his face grew serious as he grappled with a mighty problem. He straightened up practicing dignity, sternness, indiffer ence, silent rage. He stalked home with a new bearing. He burst in upor his wife with a chilling, austere bear ing that made even her marvel. "Mahala," he observed, "read tha

letter." She did so. Her lips set. Here was a family marriage, and she excluded from the knowledge until it was ef fected! She was about to break out in her usual tirade, when Rose artfully anticipated her

"I've something to say," he began grimly. "I don't propose to be sat on, and I won't! I shall telegraph Henry that you've got about enough to do slaving yourself to death, without any added burdens. The cheek of that Henry! foisting himself and some silly noodle of a wife on us. It can't be -no, sir-ree!"

Mrs. Rose listened in astonishment Never before had he ventured to express an independent opinion until she

"Oh, that's your decision, is it?" she exploded. "Well. James Washington Rose, as the mistress of this house I fancy things shall go as I say. You stop Henry from coming here and I'll go after him and his dear little wife and fetch them!"

"Dear little fiddlesticks!" growled "Oh, go shead. Be imposed on -but scant treatment they'll get from me, I tell you!" and he strode away. an apparent volcano of wrath. "She's got to go by contraries, sure as I live!" he chuckled gleesomety, once outside of the house, and alone. "Now to keep it up!"

Rose did keep it up. He was glum and disagreeable all that week. When Henry and his wife arrived he was positively savage. He barely spoke to the pretty little creature he would like to have taken into his arms in a warm fatherly hug. When she got him alone, his wife berated him to no avail. He refused to talk, while she emphasized her opinion of "the souliess old villain" who "was driving his kin from heart and home!"

Rose maintained his role nobly. One day he nearly chuckled outright, when he entered the sitting room to find his wife holding his son's weeping wife to her bosom, consoling her "poor dear lamb," who was heartbroken at "the cruel treatment of father!"

"It works-I've hit it!" gloated the 'gray-headed old reprobate," and so ne had. Mahala began to act meek. One day as he was leaving the house she came to him with a great bouquet of her choicest flowers.

"Take them to Nell," she speke weakly, "and ask them to come and spend the day with us-please!"

One day later Henry and the old nan danced a hilarious fig behind the barn. A changed woman, Mrs. Roshad at last gathered a loving flock un der the home roof. Old sores were sealed, old enmities forgotten and the new Mahala put up a new motto over he parlor mantel, reading: "It's love that makes the world go round!"

## WOMEN IN MAN'S SANCTUM

Daring Invasion Left Mere Males Little to Do but Gasp in Sur-

At last the chronicle of woman's inrasion and occupation is complete. Two charming members of the gen tler sex the other day penetrated to the innermost recess of a sanctuary which man had set apart for himsel as his very own, relates the New York Times. This is the club car on the Pennsylvania which is attached to he train that carries bankers and brokers to their summer homes along the Jersey coast. The club car is fitted with low easy chairs, with small tables and other comforts of home. Woman has long known of the of selfish man in this car, but never has the swish of a skirt been within earshot. Yesterday when two smart ly dressed young women swung aboard and sat down in two of the easiest chairs the invasion struck the car occupants like a blow. They had expected to see the women turn in filled atmosphere. Not they. They settled themselves comfortably and began to chat just as if there wasn't a man within a mile. But the wonde was yet to come. It came after the train started. One of the young women produced a gold cigarette dear would have one and a match, too. The fired business man watched and watched and the women puffed and plete invasion. No longer was the club car the sanctum sanctorum of

A drowsy state after meals is who we should welcome, for it is the most favorable condition for good diges-tion. Nutmegs may produce it be-cause their effect is to increase the flow of gastric juice.

The nutmeg is much used by do

If one has a keen appetite he doe most powerful stimulant of the flow of gastric juice. If the appet

Metal Market Quotations. Lead, New York, \$4.50.

Copper, casting, \$17.371/2

tablished at Basin. Another gushing oil well was struck

in the heart of Greybull and indications favor it being better than the one which was struck three weeks

Midwest Refining Company at Casper were placed on shorter hours Oct. L. The day workers have a nine-hour shift and the night workers eight hours.

### New Mexico.

The old mines in the Victoria range, near Deming, are to be reopened.

The Eighty-five Company has purchased the Atwood mine in the Lords-

funds to erect a customs mill at the Pinos Altos camp. An extension of the Tip-Top mine

at Pinos Altos has been leased to Bak-er & Newman of Central, who are to begin development work.

been at the rate of about 75,000,000 pounds a year.

### Arizona.

width has been discovered at the Union mining camp in Chaparral, the strike having been made by C. H. spread as evenly as possible, or, in McDonald, foreman of the mine. As other words, broadcasted under the says made returned gold values of from \$36 to \$600 a ton,

strike at the Nelson, there has been falfa seed sells at a good price. The renewed activity on many properties man seeding a field must put on sufin the Crown Kink district. Assess-

properties for the first time in years, gate the different drills and methods man and the Tom Reed-Gold Road mining district are on the eve of the greatest mining boom in the history of the United States, .. side from the rush to California in '49 on the discovery of gold in that state," said B. X. Dawson of that camp.

At Breckenridge work will be start ed by the Wellington Mines Company on a flotation plant.

Cripple Creek and San Juan mining

At Silver Plume, Clear Creek coun

onment in Cripple Creek has doubted drought while occasionally it may in price on the reported discovery of rich ore near the Cresson endlines.

hill, Cripple Creek, is the scene of one of the best discoveries made in a long

from \$40 to \$80 per ounce, and very into more general favor on the arid scarce at the advance. Armed guards, secure ore sacks and ply thereto just the same,

Pilot properties in upper California gulch, Leadville, have shipped a car of gold-bearing oxide taken from the ore shoot which they opened a short tim

cern, was incorporated by Forber Rickard of Denver, F. W. Traphager of Golden and J. B. Foley of George town. The Francis and Aqua Regia are two

of the large properties of the Gunnison gold belt, which are owned by the Pandora Mining and Milling Comdone by crosscut tunnels.

Tungsten Production Company has started and the heading is now well under cover and ready for the timber ing of the portal. In the Cripple Creek district an a

erage of about fifty tous of ore a day from the old Gold Sovereign dump, near the Dante station, is being treat ed at the Dante mill In Gunnison county the Carter mine

and mill are turning out high-grade ore and concentrates for the smelter-also gold bullion which goes to the United States mint in Denver.

## SOW ALFALFA IN FALL

Much Depends Upon Amount of Moisture in the Soil.

f Conditions Are Favorable Three Cuttings Can Generally Be Obtained Following Season-Much Seed Wasted.

A large number of our successful al falfa growers are sowing their alfalfa in the fall. This fall seeding some years depends on the amount of mois-ture in the soil. In some localities during the last few years there has not been sufficient moisture in the ground to justify fall seeding.

If the alfalfa can be sown in the fall under favorable conditions, three good cuttings can generally be gotten the following season, says Twentieth Century Farmer. If this seeding is done on stubble ground, the disk is a splendid tool to be used in preparing the ground.

The amount of seed to be sown and the manure in which the seed ing is to be done have a lot to do in the way of getting a stand. It is claimed that if one had a good strong stalk of alfalfa every six inches square there would be a good stand. Do you know that if every seed would produce a plant and every plant was placed six inches from the next it would take a little less than a pound of seed per acre? If this is true, we are throwing away a lot of seed every year.

Of course, ideal conditions can't prevail, and a certain amount of seed is always lost. Some seed won't germinate; some of it starts and dies before making a plant just because. on account of insufficient moisture it hasn't the strength to hold out. The usual amount of seed sown is from fifteen to twenty-five pounds an acre. One of the best stands of alfalfa we ever had was from seeding ten pounds per acre.

In considering the amount of seed to be sown, we must take into consideration the manner in which the seeding is to be done. If it is sown broadcast and harrowed in, more seed must necessarily be sown than if it is drilled in. We have always favored seeding with a drill. With the drill all the seed is covered, and it stands to reason that more of it will germinate and produce plants A "Glory Hole" fully twenty feet in than if broadcasted and harrowed.

The ideal conditions would be to get this seed sown and covered, yet surface, it is advisable sometimes to use a wheel behind the shoe in the Since the determination of the big drill and pack the soil slightly. Alficient seed for a stand; at the same ment work is being performed a time he does not want to put on more menth ahead of time, and on certain than is necessary. He should investiof seeding and adopt such a plan as looks to him most advisable

Moisture Is Preserved Between Rows and Plant Flourishes During Tem-

A new method of planting corn has been successfully tried out under western dry-land conditions. The seeding is done in rows twice the usu-

spaced twice as thick in the row. The stand is therefore the same but as this method seems to preserv the moisture midway between the ty, the Terrible-Dunderberg mine and rows the supply is often sufficient to mill are now employing large forces | maintain the corn in flourishing condition during temporary periods

complete the development of the crop. By this method the yields were around thirty bushels the adjoining fields in which the rows were three and one-half feet apart the yields were only ten to twelve bushels, which is not very profitable farm-

The listing plan seems to be coming uplands and the new scheme will ap-

## Drainage Neglected

ing in any country.

People usually appreciate the value of irrigation, but because they can grow crops of a sort, neglect drainage, Such people, if they have land with a surplus of water, should get a pamphlet from the United States department of agriculture on "The Economy of Farm Drainage."

Cost of Chick Feed. Ten cents should feed a chick ten weeks, and it should then weigh two pounds, if highly fed, the ten cents overing the greatest abundance of

Infertile Eggs Best. Infertile eggs produced by flocks in which there is no male bird are the only kind that can reach the consumer in good condition during the

What a Cow Is Doing. give you an idea of what a cow is de

hot summer months.

ing, but you never can tell without actual scales, actual weighing in each

It is wrong to expect the cow to yield a large profit simply because she is well bred. She must have feed and care or the breeding will amount to

kidneys weaken and then it's a slege of backache, dizzy, nervous spells, rheumatic pains and distressing urinary disorders. Don't wait for worse troubles. Strengthen the kidneys. Use Doan's Kidney Pills.

### A New Mexico Case

J. T. Sandoval, 115
Ortis St., Santa Fe.
N. Mex., Says: "I
suffered terribly from
a dull, heavy pain in
the small of my back
and it was worse
when I took cold. The
trouble came on after
an attack of malaria.
My bladder was inflamed and the kidney
secretions were discolored and scalded in
passage. Nothing
helped me until used
Doan's Kidney Pills.
Tecommend them highly."
Get Dean's at Any Stere. See

SEE

Get Doan's at Any Store, 80c a B

Prompt Relief-Permanent Cure

fail. Purely vegeta ble — act surely but gently on the liver.

SMALL PILL, SMALL DOSE, SMALL PRICE.

Brent 500d

lesiet on Cutter's. If unobtainable, THE CUTTER LABORATORY, Berk

For Once It Was a Cinch That Sign, Ordinarily Infallible, Was Doomed to Failure.

T. Heigeson of North Dakota contrib-

uted the following anecdote: One day Jones was rambling along the boulevard when he was hailed by his friend Smith. While talking about war, crops and mosquitoes, Jones noticed that Smith continually rubbed

What in the world is the matter with your hand?" he finally demanded You have been rubbing and scratch-

"Um!" thoughtfully returned Smith. as a great light suddenly dawned upon him. "Here is where you get wise to

Just Gave It to Him. "You're looking sort of upset, old man. What's on your mind?" "A piece of my wife's.

Literal Speeders "How did you get away from that

"By throwing dust in his eyes. HARD ON CHILDREN

"Rest is best, and best will ever When a person feels this way about Postum they are glad to give testimony for the benefit of others.

A school teacher down in Miss, says: I had been a coffee drinker since my childhood, and the last few years it

"One cup of coffee taken at break fast would cause me to become so nervous that I could scarcely go through with the day's duties, and this by deep depression of spirits and heart

"I am a teacher by profession, and when under the influence of coffee had to struggle against crossness when in

"When talking this over with my physician, he suggested that I try Postum, so I purchased a package and

fying effects. My nervousness disapeared, I was not irritated by my pu-

"I attribute my change in health and spirits to Postum alone."

Name given by Postum Co., Battle

Postum comes in two forms

Instant Postum-a soluble powder-

Both kinds are equally delicious and



feed carrier to run through the center sllo, or mixed feed from the little feedroom built in between the end of the stable and the silo. The same center car track and carrier will bring forfrom a hayrack at the other end this way dairymen often prefer to cut certain crops in the field and haul the

fodder to the stable to feed.

ticed to any extent in the North, but talk about ourselves, our hopes, our

of our best dairy sections where feed is a sure sign. Brother, when you find others are sown in the fall to mature early in the spring, that may be fed to advantage as soiling crops. All soil-ing crops are expensive to handle, be-

to handle such fodder without pulling

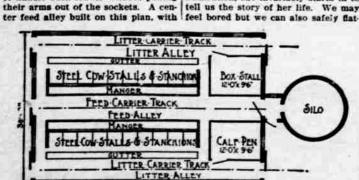
en a puzzle to dairymen how

of the building. In using a stable in Get Lover to Talk About Himself, and

ONE OF THE SUREST SIGNS You Have Him Hooked, Is Opinion of Expert.

admiration, she invariably starts in to

And directly we feel a yearning to fears, we are weak and tractable. It to the young woman, and she shows a We notice it ourselves. As sure as



cause they are fed green. It has al- a young woman is interested in

34' - 0-

about as near solving the problem as

Thirty-six feet in width is recog nized as being the most satisfactory save hand labor. It gives room for the machines and for the necessary me ical appliances to operate the dif-

ferent inbor savers. In this stable the cows are heade in for the same reason. It is cheaper and easier to care for eattle when they down of the building admit light where ngs are fitted with sash that may ed during cold or stormy weath er. The monitor sash is hung with a patent bracket, so that each sask ings from the center in such a way as to easily open by means of con-and terra secting rods that come down within dwellings.

Floor Plan.

an extra large feed carrier, comes | ter ourselves that she has cast a favor ible eye upon us. "But how do you know he is interested in you?" asks mamma, when

daughter makes a tentative confi-"Oh, he talked about himself the whole time," answers daughter artingly and puts him through Bradstreet

New York city's first vocational school, which is to be erected by the city at the northwest corner of Lexington avenue and Twenty-second

cording to plans filed with the build-

the board of education. The struc-

and terra cotta. It will replace three

sent the strong will of his resolute "By heck, I'll do it!"

WESTERN MINING AND OIL **NEWS** 

en Newspaper Union News Service. Bar silver, 49%c. Spelter, St. Louis, \$12.85.

Wyoming. As oil well supply house will be es

All the refinery employes of the

Wyoming has a number of minerals besides oil, although the latter is more prominent at present. Pioneers at Silver Crown and in the city of Chevenne have realized on their faith in the mineral wealth of the old Silver Crown mining camp. A carload of ore has been smelted and has yielded \$508,13 gold and silver.

burg district. An effort is being made to raise

The tonnage of the China Copper Company still continues around the hight point, though for August its output was slightly below that of June and July. The August output was 6,640,000 pounds of copper, and for the past four months its output has

"Present indications are that Oat-

men have secured the Post Boy mines and mill at Eagle Rock,

The Gold Sovereign, a fresh devel-The American Eagles mine on Bull

Platinum, which comes mainly from Siberia, has suddenly leaped in price

onstant assay attest the presence of bonanza ore in the Gold Sovereign mine on Bull hill, Cripple Creek. The lessees on the Reveille and

The Colorado Metal, Mining and Reduction Company, a \$1,909,000 con

pany, and development work is being Work in the tunnel of the Boulde

Feed is Most Essential.

## Going It Too Hard

We are inclined nowadays to "go it too hard;" to overwork, worry, eat and drink too much, and to neglect our rest and sleep. This fills the blood with uric acid. The

DOAN'S TILL POSTER-MELBURN CO., BUFFALO, N. Y.

Constipation Vanishes Forever CARTER'S LITTLE LIVER PILLS never

Genuine must bear Signature

# WOULDN'T WORK THAT TIME

The talk topic turned to signs, tokens and things like that the other afternoon, when Congressman Henry

the palm of his hand.

ing it ever since we stopped here." "The palm itches like blazes," an-NEW CORN-PLANTING METHOD swered Jones. "They say that it is a sure sign that you are about to get some money."

the fact that there is nothing in signs.

ountry constable?

When Teacher Has Coffee Habit.

had injured me seriously.

made it carefully according to directions; found it excellent of flavour. and nourishing. "In a short time I noticed very grati-

pils, life seemed full of sunshine, and my heart troubled me no longer.

Postum Cereal-the original formmust be well boiled. 15c and 25c pack-

dissolves quickly in a cup of hot water, and, with cream and sugar, makes a delicious beverage instantly. 30c and 50c tins.

cost about the same per cup.
"There's a Reason" for Postum.